



SCHOOL *of* ENGINEERING & TECHNOLOGY

ADMISSION BROCHURE
2019 - 2020

Celebrating 25 Years of
Nagaland University
1994 - 2019



For a vibrant future



SCHOOL OF ENGINEERING & TECHNOLOGY

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MESSAGE FROM THE DESK OF VICE CHANCELLOR



Dear Aspiring students,

Welcome to Nagaland University family.

Nagaland University is one of the forty eight Central Universities of the country having four campuses at Lumami (HQ), Meriema (Kohima Campus), Medziphema (School of Agricultural Science and Rural Development), and Dimapur (School of Engineering Technology). It is our privilege and pleasure to invite every aspiring student to become a part of the University academia in the State of Nagaland. The beaconing beauty of all four campuses blesses and grooms each and every one under its wings. All the campuses are evergreen, always lively and pollution free. Its serenity inculcates value, humbleness and positive vibes in each and every member.

The prospectus will guide you on the B.Tech programs offered by the University in five disciplines. The duration of each discipline is 4 years.

University faculty members are friendly and supportive. Our expectation is that you would devote your time and energy dedicatedly to make yourself knowledgeable and skilled to serve your motherland more efficiently, provided you are selected for a seat.

The University has made all out efforts to create necessary infrastructure facilities in all four campuses to provide you a comfortable atmosphere. Infrastructures such as modern classrooms, libraries with standard books and journals, internet connectivity, computer centres, practical and research laboratories, modern equipment and implements, boys' and girls' hostels, concrete and tarred roads, drinking water facility, canteens, auditorium with 900 sitting capacity at its Headquarters Lumami, Bank (SBI) and Post Office in the campuses, gymnasium, play grounds etc. are some of the amenities created for students and campus dwellers.

Passed out students from Nagaland University are getting jobs across the country as well as abroad. Each member of Nagaland University Alumni Association is the flag bearer and ambassador of the University. We are happy as you have chosen Nagaland University to be your Alma Mater.

Once again, welcome,

(PROF. PARDESHI LAL)
VICE CHANCELLOR
NAGALAND UNIVERSITY

Celebrating 25 Years of
Nagaland University
1994-2019



For a vibrant future

MESSAGE FROM THE DESK OF DEAN



Nagaland University is a place where individuals join hands to produce an amicable atmosphere for learning as well as all round development of all its stakeholders. The School of Engineering and Technology have proficient and enthusiastic faculties committed to the cause of excellence in the field of Engineering & Technology .

The School offers B.Tech. Degree Programmes in five Disciplines viz. Agricultural Engineering and Technology, Biotechnology, Computer Science & Engineering, Electronics and Communication Engineering and Information Technology. The School emphasis on Academics first and overall personality development and organizes various co-curricular, cultural and sport activities throughout the year. The School has a well stocked Library, Conference Hall, Hostels for both Boys and Girls, Bus Service, 24X7 Internet Facility.

School of Engineering & Technology (SET), Dimapur wishes you a meaningful stay for carving a bright future.



(S.K. SHARMA)
DEAN, SET
NAGALAND UNIVERSITY

Vice Chancellor:
PROF. PARDESHI LAL

SET OFFICIALS AND IN-CHARGES

Dean:

PROF. S. K. SHARMA

Assistant Registrar:

MR. KAHOSHE SUMI

I/C Academic & Exams:

MR. SHANCHAMO YANTHAN

I/C Student Welfare:

MS. AKANGJUNGSHI LONGKUMER

I/C Dept. of Agricultural Engineering and Technology

DR. PRAMOD CH. DIHINGIA

I/C Dept. of Biotechnology

DR. HANUMANT SINGH RATHORE

I/C Dept. of Computer Science and Engineering

MR. RAMESH SINGH

I/C Dept. of Electronics and Communication Engineering

MS. IMESANGLA AO

Warden, Girl's Hostel

MRS. BENDANGCHILA

I/C Dept. of Information Technology and Coordinator

MR. TEISOVI ANGAMI

Training & Placement

MR. SOURAV HAZARIKA

I/C Common Pool

DR. CHITRASEN LAIRENJAM

Warden Boys's Hostel

DR. IMLITOSHI JAMIR

System Administrator

MR. ANTHONY VISA

Library Professional Assistant

MR. JEVITO SHOHE

I/C Sports & Game

MR. RAMESH SINGH

Convener Admission Committee

MR. AKANGJUNGSHI LONGKUMER

1. THE UNIVERSITY

The Nagaland University is a Central University established by an act of parliament in 1989. It came into being on 6th September, 1994. The objective of the University is to disseminate knowledge by providing infrastructural and research facilities in such branches of learning as in Humanities, Natural & Physical Science, Social Science, Agricultural science, Engineering & Technology and Management. The University has departments located in its campuses in Lumami, Kohima, Medziphema and Dimapur.

2. THE SCHOOL

School of Engineering & Technology was inaugurated on 29th October, 2007 by the then Governor of Nagaland (Chief Guest) His Excellency Shri K. Sankaranarayanan and the then Hon'ble Chief Minister of Nagaland (Guest of Honor) Shri Neiphiu Rio. It is the first instruction of Engineering in the State of Nagaland with state-of-the-art infrastructure. The academic building is located at D.C. Court Junction, Dimapur. The School is housed in a single four storied building with a carpet area of 35500 sq.ft. The Administrative Block is situated at Landmark Colony, Dimapur which is a walking distance from the Academic Complex.

THE SCHOOL OFFERS BACHELOR OF TECHNOLOGY DEGREE IN THE FOLLOWING UNDERGRADUATE PROGRAMS

- Agricultural Engineering and Technology
- Biotechnology
- Computer Science & Engineering
- Electronics & Communication Engineering
- Information Technology

The Campus is well connected by train, air service as well as road transportation. The Campus is networked with all the other campuses of Nagaland University. The School (University) has a Residential Complex which houses staffs and students, has sports and recreational facility and a furnished Guest House. Hostel facility is provided for both boys and girls with regular bus service.

3. INFRASTRUCTURE AND FACILITIES

3.1 STUDENTS AMENITIES AND ACTIVITIES

3.1.1 HOSTEL

The School provides limited Hostel facilities for the students. There are three boys and three girl's hostels accommodating them on a twin-sharing basis. All hostellers have to abide by the rules and regulations of the hostel.

3.1.2 SCHOOL MAGAZINE

The School publishes School magazine annually to encourage creativity of the students.

3.1.3 CAREER COUNSELLING AND PLACEMENT

The career counseling and placement cell guide the students regarding their future academic and employment career. Training and Placement in-charge updates the students regarding any placement activities from time to time.

3.1.4 GAMES AND SPORTS

Facilities like Table Tennis, Carom, Cricket, Chess games and Gym are available to the students residing in the Hostel.

3.1.5 STUDENT'S ACTIVITIES

The student organizes various activities from time to time in the campus.

3.1.6 CONFERENCE HALL

The school has a conference hall where various cultural activities, lectures of specialists and renowned person in their fields are organized from time to time in addition to academic seminars and symposia.

3.1.7 INTERNET FACILITY

The Academic Complex is connected to the internet with 100 mbps broadband connection from NKN (National Knowledge Network)

3.1.8 LIBRARY

The Library has collection of latest Textbooks, Reference books, Journals on different streams of Science, Engineering and Technology. The Library has a study room where the students can interact with each other. In addition to this, the University has e-library (INFLIBNET programme already accessible) which provides access to numerous books, National and International Journals on-line.

4. ACADEMIC PROGRAMMES

The School offers 4 years (Eight semesters) academic programmes approved by AICTE/University leading to B.Tech. degrees on successful Completion of the course. The School adopts a teaching pattern of course credit system in semesters. One academic year is divided into two semesters comprising approximately 20 -weeks per semester. Major emphasis is laid on practical & industrial training.

5. ELIGIBILITY CRITERIA FOR ADMISSION**5.1 FRESH ENTRY (AFTER 10+2)**

The candidates seeking admission to any Discipline of Technology should secure in aggregate the minimum of 50% marks for General Category and 45% marks in case of SC/ST Category. Students should have passed **Physics, Chemistry and Mathematics** in their 10+2 Exam. Students opting for **Biotechnology** programme should have passed **Physics, Chemistry Mathematics and Biology** in their 10+2 Exam.

5.2 LATERAL ENTRY (AFTER DIPLOMA/B.SC)

The candidates seeking admission through lateral entry to any Discipline of Technology should secure in aggregate the minimum of 50% marks for General Category and 45% marks in case of SC/ST Category along with the criteria give below.

1. Passed diploma examination from an AICTE approved institution; with at least 50% marks (45% in case of candidates belonging to reserved category) in appropriate branch of Engineering/ Technology.
2. Passed B.Sc. degree from recognized university as defined by UGC, with at least 50% marks (45% in case of candidates belonging to reserved category) and passed XII standard with mathematics as a subject.
3. Provided that in case of students belonging to B.Sc. stream shall clear the subjects of Engineering graphics/ Engineering Drawing and Engineering Mechanics of the first year engineering program along with the second year subjects.
4. Provided further that, the students belonging to B.Sc. stream shall be considered only after filling the supernumerary seats in this category with students belonging to the diploma stream.
5. Provided further that students, who have passed diploma in engineering & Technology from a university approved institution or B.Sc. degree from a recognized university defined by UGC, shall also be eligible for admission to the first year engineering degree courses subject to vacancies in the first year class in as the vacancies at lateral entry are exhausted. However, the admission shall be based strictly on the eligibility criteria as mentioned in 1, 2, 3 and 4 above

6. ALLOCATION OF SEATS

ESH ENTRY 10 + 2

The total number of seats in each discipline is 30. Seat allocation for each discipline for different states and other quota is given below.

1. Nagaland	6
2. Arunachal Pradesh	1
3. Meghalaya.....	1
4. Mizoram.....	1
5. Tripura.....	1
6. Sikkim.....	1
7. Assam	1
8. Manipur.....	1
9. Physically Challenged*	1
10. University Quota	1
11. Jammu & Kashmir.....	1
12. All India Open Category.....	14

6.2 LATERAL ENTRY

Diploma holders and BSc degree holders shall be eligible for admission to second year Engineering course(s) upto a max of 10% of approved intake which shall be over above supernumerary to the "Approved intake" plus the unfilled vacancies of 1st year.

* Unfilled seats will be added to All India Open Category.

7. SELECTION AND ADMISSION

SELECTION FOR ADMISSION UNDER VARIOUS QUOTAS IS DONE AS MENTIONED BELOW:

7.1 ALL INDIA OPEN CATEGORY

The candidates will be considered for admission preferably on the basis of their scores in JEE (main) examinations of all India Competition. The reservation of seats will be as per the University Policy adopted and mentioned in the Regulation of School of Technology. The merit list shall be based on 30% of JEE mains score and 70% of class 12 percentage

7.2 UNIVERSITY QUOTA

The University quota shall be taken care as per rules.

7.3 STATE QUOTA

Selection for admission under State quota is done by respective State Governments. On receipt of the list of nominated Candidates from respective Government, admission formalities are completed by the School as per eligibility criteria.

7.4 LATERAL ENTRY

Selected for admission under lateral entry will be as per marks obtained in Diploma/BSc.

7.5 FEES STRUCTURE

Fees to be paid at the time of admission/renewal of admission for B.tech program at school of engineering & technology, Nagaland University

7.5 FEES STRUCTURE TABLE

SL. No	FEES	PERIODICITY	AMOUNT (₹) (1st Semester)	AMOUNT (₹) (All Semester)
1	Admission fee	Once	1050/-	-
2	Registration fee	Once	400/-	-
3	Tuition fee	Every Semester	7000/-	7000/-
4	Laboratory fee (as applicable)	Every Semester	1050/-	1050/-
5	Library fee	Every Semester	320/-	320/-
6	Library caution Money (Refundable)	Once	500/-	-
7	Sports fee	Every Semester	60/-	60/-
8	Medical fee	Every Semester	110/-	110/-
9	Examination fee	Every Semester	810/-	810/-
10	Students' activity fee	Every Semester	320/-	320/-
11	Annual Magazine fee	Every Semester	110/-	110/-
12	Students' Aid fund	Once	210/-	-
13	Workshop/Seminar/Conference fee	Once	840/-	-
14	Industrial interface & Technical Fest	Every Semester	500/-	500/-
15	Placement Activities	Once	1500/-	
16	Internet fee	Every Semester	110/-	110/-
17	Department Caution Money (Refundable)	Once	1580/-	-
18	University Development Fund	Once	100/-	-
	Sub Total		16,570/-	10,390/-
FOR HOSTELLERS				
19	Hostel Admission	Once	200/-	
20	Hostel fee	Every Semester	3000/-	3000/-
21	Hostel Caution Money (Refundable)	Once	1580/-	-
	Sub Total		4780/-	3000/-

TRANSPORTATION CHARGES

TRANSPORTATION (THOSE AVAILING UNIVERSITY BUS FACILITY) - ₹600/- PER SEMESTER.

- Students who desire to withdraw his/her name from the roll of the University and claim any refund then the fees shall be dealt with as per the University /UGC/MHRD/AICTE/ICAR/NCTE guidelines.
- Hostel Fee does not include Mess Fee.
- The fee structures are subject to change from time to time.
- Fees should be deposited using Online State Bank I-Collect using Debit/Credit Card/Netbanking/SBI Power Jyoti. The receipt can be generated from the same portal.

OTHERS		
1	<i>Identity Card/Duplicate ID Card</i>	<i>100 per Card</i>
2	<i>Repeat of examination</i>	<i>300 per Paper</i>
3	Late fine <i>Beyond 7 days of starting of course</i> <i>(For 2nd Semester and Subsequent Semester)</i>	<i>100 per Day</i>

7.6 REGISTRATION IN VARIOUS COURSES

Candidate has to take admission by payment of prescribed fees immediately after selection. In case of failure to pay fees at the time of admission, the seat allotted to the candidate(s) will stand forfeited.

Physical presence of the candidates is mandatory for registration. Every student has to fill up prescribed course registration forms (3 copies).

7.7 EXAMINATION AND EVALUATION

Semester system with internal evaluation comprises of continuous assessments, Mid term exam, internal assessment and End - Term Theory & Practical Examinations. The performance of a student in a particular course is evaluated and expressed in a 10 points grading scale which are converted to letter grade as stated below:

MARKS OBTAIN	EQUIVALENT LETTER GRADE	CREDIT POINTS
<i>91 to 100</i>	<i>O</i>	<i>10</i>
<i>81 to 90</i>	<i>A</i>	<i>9</i>
<i>71 to 80</i>	<i>B</i>	<i>8</i>
<i>61 to 70</i>	<i>C</i>	<i>7</i>
<i>51 to 60</i>	<i>D</i>	<i>6</i>
<i>45 to 50</i>	<i>E</i>	<i>5</i>
<i>Below 45</i>	<i>F</i>	<i>0</i>

CGPA	CLASS
<i>8.0 and Above</i>	<i>First Class with Distinction</i>
<i>6.5 to 7.9</i>	<i>First Class</i>
<i>5.5 to 6.4</i>	<i>Second Class</i>
<i>5.0 to 5.4</i>	<i>Pass</i>
<i>Below 5.0</i>	<i>Failed</i>

THE FINAL PERFORMANCE OF A STUDENT ON COMPLETION OF THE B. TECH. COURSE WILL DEPEND ON THE CUMULATIVE GRADE POINT AVERAGE (CGPA).

*** THE COMMENCEMENT OF CLASSES FOR THE FRESH BATCH (2019-20) WILL BE FROM 25TH JULY 2019**
*** TO BE ELIGIBLE FOR APPEARING IN THE END TERM EXAMINATION, 75% ATTENDANCE IS MANDATORY IN ALL COURSE .**

SCHOOL OF ENGINEERING AND TECHNOLOGY RULES AND REGULATIONS FOR BACHELOR OF TECHNOLOGY

1. General

1.1. Short Titles

These Regulations may be called the "Bachelor of Technology (B. Tech) Regulations" of the School of Engineering and Technology (SET), Nagaland University.

1.2. Date of Enforcement

These Regulations shall come into force with effect from the beginning of the academic session 2019-20 and there after.

1.3. Extent of Application

These Regulations shall apply to students seeking admission to B. Tech. Degree in:

- Agricultural Engineering and Technology
- Biotechnology
- Computer Science and Engineering
- Electronics and Communication Engineering
- Information Technology

and as the case may be and admitted in the SET, Nagaland University. These Rules and Regulations may be amended from time to time.

1.4. Interpretation

Subject to such advice as may be given by the Executive Council or the Academic Council, the decision of the Vice-Chancellor shall be final and no suit, application, petition, revision or appeal shall lie in a court of law or in any authority outside the University in respect of interpretation of these Regulations.

2. Definitions

2.1. Academic Year

The academic year of SET, Nagaland University shall ordinarily be from mid-July to mid-June and shall consist of two semesters. Academic bodies of the University is however empowered to modify the same if need arises.

2.2. Semester

The academic year shall have two terms each of which shall be of about 19½ weeks duration known as Semester. Inter semester shall be regulated by completion of minimum academic/teaching hours envisaged in the provision of the rule.

2.3. Minimum working days in a semester

A semester shall have at least 100 full working day excluding the examination days. In case the required number of working days falls short of the above due to unforeseen and unavoidable circumstances, the same shall be made up by arranging extra classes by the teacher concerned. The number of classes (for theory and practical components separately) for different credit load of course(s) shall be as noted hereunder.

- 1 (one) credit hour course-13 classes minimum
- 2 (two) credit hour course-26 classes minimum
- 3 (three) credit hour course-39 classes minimum
- 4 (four) credit hour course-52 classes minimum

2.4. Credit Hour(s)

Credit(s) shall signify the quantum of work done corresponding to 1 hour of theory and 2 to 3 hours of laboratory, field/farm practical classes every week.

2.5.Course(s)

A course is a unit of instruction or segment of a subject matter under any discipline carrying a specific number of credit hour(s) value on 10.00 point scale.

2.6.Grade Point (GP)

Grade Point shall be calculated as per section 18.1.

3. Academic Calendar

3.1.Calendar

The academic calendar shall be prepared by the Dean/ Academic Section of the School and it shall specify the schedule of academic activities of each semester/academic year. The academic calendar shall include curricular and extracurricular activities. It shall also include holidays and inter semester break period.

4. Admission

4.1.Admission Notice

Notice for admission in B. Tech. programme shall be issued by the Dean/ Admission Convener through mass media at least two months ahead of the date fixed for the commencement of the academic year.

4.2.Admission Committee

The Dean shall constitute an Admission Committee with the following members to oversee the overall admission procedure:-

- | | |
|--|--------------------|
| 1) Professor/ Assoc. Prof./ Senior Faculty | - Convenor |
| 2) Two faculty (on rotation) | - Member |
| 3) I/C Academic & Examination | - Member Secretary |

The committee shall advertise the admission dates, design the brochure and pamphlets relating to admission, set the dates for counseling and prepare merit list of all applicants. The term of the committee shall be for a period of 1 (one) year only.

4.3.Admission Procedure

The application for admission only on prescribed form duly filled in and completed in all respect must reach the Dean of SET on or before the last date specified for the purpose.

4.4.Minimum Qualification for admission to B. Tech. Programme

The candidates seeking admission to any Discipline of Bachelor of Technology should secure in aggregate the minimum of 50% marks for General Category and 45% marks in case of SC/ST Category along with the criteria given below:-

- a. In Branches such as Computer Science & Engineering, Information Technology, Electronics & Communication Engineering and Agricultural Engineering & Technology, students should have Physics, Chemistry and Mathematics in their 10+2 Exam.
- b. In Biotechnology, the students should have Physics, mathematics, Chemistry and Biology in their 10+2 Exam.

The Admission criteria may be changed from time to time by the University as deemed fit. Preference shall be awarded to applicants having a valid CBSE JEE MAIN/ ADVANCE score.

4.5.Lateral Admission

The candidates seeking lateral admission to any Discipline of Bachelor of Technology should satisfy the criteria given below:-

1. Passed Diploma examination from an AICTE approved institution; with at least 50% marks (45% in case of candidates belonging to reserved category) in appropriate branch of Engineering / Technology.
2. Passed B. Sc Degree from a recognized University as defined by UGC, with at least 50% marks (45% in case of candidates belonging to reserved category) and passed XII standard with mathematics as a subject.
3. Provided that in case of students belonging to B. Sc. Stream, shall clear the subjects of Engineering Graphics/ Engineering Drawing and Engineering Mechanics of the first year engineering program along with the second year subjects.

4. Provided further that, the students belonging to B. Sc. Stream shall be considered only after filling the supernumerary seats in this category with students belonging to the Diploma stream.
5. Provided further that students, who have passed Diploma in Engineering & Technology from an AICTE approved institution or B.Sc Degree from a recognized University as defined by UGC, shall also be eligible for admission to the first year Engineering Degree courses subject to vacancies in the first year class in case the vacancies at lateral entry are exhausted. However the admissions shall be based strictly on the eligibility criteria as mentioned in 1, 2, 3, and 4 above.

4.6.School of Engineering and Technology Entrance Examination

The admission to the B. Tech programme may be done based on the Merit List of the School of Engineering and Technology Entrance Examination (SETEE). The conduct of SETEE is on the sole discretion of the Admission Committee.

4.7.Maximum number of seats in each discipline

The maximum number of students to be admitted to the B. Tech. Programmes shall be 30 in each discipline.

5. Seat Allocation

5.1.Reservation of Seats

For B.Tech. Degree programme the number of seats reserved under various categories is given below:

Total number of seats	: 30
Unreserved Category (to be filled through Merit)	: 14
Nagaland Govt. Nominees	: 6
Meghalaya Govt. Nominees	: 1
Mizoram Govt. Nominees	: 1
Arunachal Pradesh Govt. Nominees	: 1
Sikkim Govt. Nominees	: 1
Assam Govt. Nominees	: 1
Manipur Govt. Nominees	: 1
Tripura Govt. Nominees	: 1
Jammu & Kashmir	: 1
University Quota	: 1
Differently Abled	: 1

*Reservation Policy of the University shall be applicable for all the categories of candidates.

5.2.Unfilled Seat

The unfilled seat(s) under any category shall be allotted to Candidates from Nagaland provided they should fulfill all Admission Eligibility Criteria mentioned in Section 4.3.

6.Hostel Seat Allocation

- 6.1. The School provides Hostel Seats to both boys and girls depending on the availability of Seats.
- 6.2. Family accommodation shall not be provided to any student of the undergraduate courses.
- 6.3. All students must abide by the rules and regulations of the hostel as may be framed from time to time by the Hostel Management Committee.

7.Attendance of Students

- 7.1. Attendance in all classes (lectures, tutorials, laboratories, practical, studio, workshops etc) must be at least 75 percent of the total classes. A student shall be debarred from appearing in the End-Term Examination if Her/His attendance falls below 75 percent and shall be awarded an F Grade in that course.

7.2. Condonation of Attendance

The Dean may, on the recommendation of the Advisor/ Course In-charge, condone any attendance up to 5 per cent in a course(s) in exceptional circumstances as given below (in a and b) and shall allow the student with an attendance of 75 per cent or more to appear at the end term examination. No condonation under any circumstances shall be granted to those having below 75 per cent of attendance in a course(s).

a. Authorized absence under official directives

The Dean of the School, on the recommendation of the concerned Head/ In-charge, may permit a student to represent the University/ School in the inter-University or at the National level/ Regional level curricular and co-curricular activities. The period for which the student is deputed for the above shall be treated as leave. The Head/ In-charge of the Department, Academic cell/In-charge Student Welfare as well as the student concerned shall, however, ensure that Her/His attendance does not fall short of the minimum fixed vide section 7.1. The Dean shall notify the name(s) of such student (s) to the Head/ In-charge of the Department for conveying the information to the teacher(s)/Instructor(s) concerned for the record. The Head/ In-charge of the Department, Academic Cell, shall convey the same to the Advisor of the student(s).

b. Serious illness

If a student is unable to attend classes owing to serious illness, the student concerned/guardian shall submit an application along with a medical certificate from the University Medical Officer stating clearly the period for which the student was advised for treatment and rest along with recommendation of the hostel warden within 3 days from the date of reporting to the Dean. Such application shall be addressed to the Dean, who may grant leave for the days of absence.

7.3. It shall be the responsibility of the student to intimate the Warden of the hostel in which She/He is residing, and the concerned instructors regarding Her/His absence before availing the leave.

7.4. Notification regarding class attendance

The record of class attendance of all students in every course shall be prepared by the Teacher(s)/ Instructor(s) concerned at least 7 days prior to the date of commencement of the End-Term Examination and the name of the student(s) having shortage of attendance shall be notified three days prior to the commencement of the End-Term Examination by the Dean through the respective Head/ In-charge of the Department.

8. Conduct and Discipline

8.1. Students shall conduct themselves within and outside the precincts of the School in a manner befitting the students of an institution of national importance.

8.2. Ragging in any form is banned: acts of ragging shall be considered as gross indiscipline and shall be severely dealt with.

8.3. The following acts of omission and/or commission shall constitute gross violation of the code of conduct and are liable to invoke disciplinary measures by the Student Disciplinary Action Committee.

a. Ragging

b. Lack of courtesy and decorum; indecent behavior anywhere within or outside the campus.

c. Willful damage or stealthy removal of any property/belongings of the School/Hostel or of fellow students.

d. Stealing, Gambling, Possession, consumption or distribution of alcoholic drinks or any kind of hallucinogenic drugs.

e. Immoral activities.

f. Mutilation or unauthorized possession of library books.

g. Noisy and unseemly behavior, disturbing studies of fellow students.

h. Hacking in computer systems (such as entering other person's area without prior permission, manipulation and/or damage of computer hardware and software etc.)

i. Use of University/School premises for any purposes other than that for which it meant without the permission of the authority concerned.

j. Breach of the University rules and regulations.

k. Any other cause/act which may lower the prestige of the University/School.

l. Organizing meeting by students inside the campus or calling the outsider to organize meeting inside the hostel campus without permission.

- m. Violation of hostel discipline.
- n. Any other act of gross indiscipline.

Commensurate with the gravity of the offence, the punishment may be reprimand, fine, expulsion from the hostel, debarment from and examination, rustication for a specified period or even outright expulsion from the school.

8.4. Disciplinary punishment by the Dean of the school

- a) The Dean of the School may impose following punishment on matters relating to academic affairs, and acts of indiscipline by a student. Warning, fine up to Rs. 500/-, placement on 'Conduct Probation'/debarment for one semester/stopping the stipend/fellowship/scholarship, etc.
- b) On the recommendation of the Disciplinary Committee, the Dean of the School may impose the following punishments.
 - i. Expulsion from the Hostel and confiscation of caution money which has been deposited.
 - ii. With the approval of the Vice-Chancellor, debarment from more than one semester, imposition of a fine above Rs. 500/- (Rupees Five Hundred) only, and rustication/expulsion from the School.

8.5. Disciplinary punishment by the Head of the Department (HOD)/Hostel Warden

- I. a) The HOD/ Warden shall issue warning and/or a fine up to Rs.100/- only for violating the disciplinary rules mentioned in section 8.3.
- b) The Hostel Warden may refer the matter to the Dean of School for placing the case before the Disciplinary Committee for necessary action, if the gravity of the case(s) does not fall under his/her purview for disposal.

8.6. Placement on conduct probation

A student found guilty for the violation of the rules and regulation of the School/University/Hostel or acts indiscipline or misbehavior, may be placed on conduct probation by the Dean of the School for a specified period of not less than 1(one) semester. During the period of conduct probation, a student shall not be allowed to:

- a) Represent the School/University in sports, cultural contest, etc., inside or outside the University.
- b) Hold office in student organization and society.
- c) If a student, who had been on conduct probation on 2(two) previous occasions, is again found guilty for another spell of conduct probation, he/she shall be dropped from the roll of the school.

8.7. Rustication/Expulsion

- a. Rustication/Expulsion is a removal of a student from the roll of the School as a punishment from the School. The minimum period of rustication shall be 1(one) semester in addition to the remaining of the semester for which the order is passed. In such cases, Vice-Chancellor's approval is necessary.
- b. Expulsion is permanent removal from the School Hostel. An expelled student shall not be permitted to get admitted into the school of the University.
- c. A rusticated student may rejoin his/her class in the School after expiry of the rustication period on obtaining formal permission of the Dean of School.

8.8. Procedure for rustication/Expulsion from the School

Before a student is rusticated/expelled, the following procedures shall be observed:

- a) On receipt of complaint against the conduct of a student, the Dean of School shall enquire into the matter within 7(seven) days of receipt of the complaint and place it before the Disciplinary Committee, not later than 15(fifteen) days from the date of receipt. If the disciplinary Committee specifies that there is need to review the case for rustication/expulsion of a student, the student shall be allowed to explain in writing about the rustication against him/her or appear before the Disciplinary Committee to show cause/explain why he/she should not be rusticated/expelled.
- b) The concerned student shall have to submit his/her explanation within 7(seven) days from the date of issue of intimation by the Dean of School.
- c) After receiving the explanation or hearing in person, the Disciplinary Committee shall examine the case.
- d) If, at this stage, the Disciplinary Committee is convinced that is a genuine case of rustication/expulsion, the Dean of School shall forward the recommendation for consideration and approval of the Vice-Chancellor.

8.9. Cases of adoption of unfair means in an examination shall be reported to the Dean and the answer script of the student shall be marked "O" or "F" Grade.

8.10. Composition of the Disciplinary Committee.

The School of Engineering and Technology shall have a Disciplinary Committee constituted by the Dean.

- | | | |
|--|---|------------------|
| I. Professor/Sr. Assoc/Asstt. Professor | - | Chairman |
| II. Boys Hostel Warden | - | Member |
| III. Girls Hostel Warden | - | Member |
| IV. Advisor | - | Member |
| V. One student representative
nominated by the Dean of the School | - | Member |
| VI. Dean/ In- Charge, Students Welfare | - | Member Secretary |

Presence of more than 50 percent of the members is needed to complete the quorum.

9. Hostel Rules and Regulations

9.1. These Rules applies to all the students who are staying in the hostel of the School of Engineering and Technology, Nagaland University.

9.2. Rooms

- a) **Admission and Allotment:** Students who seek admission to the hostel have to apply separately in the Hostel Registration/ admission Form which can be obtained from the Administrative office. Room allocations shall be done during the Hostel admission.
- b) **Room Changes**
- Room allotments are normally valid for the entire academic year.
 - Students must occupy only those rooms specifically allotted to them.
 - Students must not shift/ move to another room without the permission of the warden. If a room change is desired, a written request may be given to the Warden with proper justification. Approval of room change is the sole discretion of the Warden.
- c) **Taking care of own room**
- Hostel rooms are equipped with furniture and fittings of appliances. Student occupying the room shall sign for the receipt of items in Register. Students shall be responsible to hand over the items in their original serviceable condition to hostel authorities while leaving the rooms on closure of the academic session.
 - No furniture must be removed from respective rooms. Removal of furniture or furnishings shall invite disciplinary action. All university furniture must be in the room and in proper condition when a student move out of the room.
 - Any damage to hostel property shall be replaced by recovering the cost of repair from the individual concerned. If the damaged item is irreparable, the actual cost of the property shall be realized from the individual concerned. In cases where responsibility for such acts cannot be determined, a common fine shall be imposed on all the occupants of the room/ hostel.
- d) **Repairing works:** The hostel warden shall assist the students for repairs in the respective rooms. The Warden should be informed if there is any repair to be carried out in written form through the prefect.

9.3. Personal Property

- Each student shall safeguard their belongings and shall be responsible for their personal property.
- Wardens may ask the students to shift their belongings/ vacate the room for maintenance work/ during an emergency/ during vacation.
- Use of equipment such as electric heaters, video systems, loud speakers, etc. is strictly prohibited inside the hostel rooms. Any defaulters, if found, shall be levied a fine of Rs. 200.00/- (Rupees Two Hundred Only) for first time offender and expulsion beyond that.

9.4. Energy Conservation

Conservation of energy and resources is a major concern of the University.

- Lights and fans must be switched off at all times when no one is in the room.
- Electrical problems in the room should be reported immediately to the Warden.
- Water taps must be turned off when they are not in use.

9.5. Cleanliness

- a) Hostellers shall be responsible for the cleanliness of their respective room and the premises. Rooms must be kept clean and tidy for health and safety reasons.
- b) Students are advised not to leave any items like paper, covers of toilet soap, sanitary napkins etc. in the bathrooms. Any form of waste should not be flushed down the toilet and should be disposed properly.
- c) Students should participate in mass social work from time to time as per the instruction laid down by the prefect or warden as initiative of Swachh Bharat. Hostellers not participating shall be levied a fine of Rs.100.00/- (Rupees One Hundred Only) per person.

9.6. General Discipline

- a) Ragging is strictly Prohibited and anyone found guilty shall be punished as per rules and regulations laid down by the Supreme Court of India.
- b) Students are not allowed to stay in the hostel during the class hours unless it is unavoidable due to illness or any other valid reason.
- c) Students who wish to stay back in the hostel during semester break with proper justification should take prior permission from the warden.
- d) If the student decides to leave the hostel they should inform the warden.
- e) The hostellers are not permitted to stay out of the hostel beyond the closing time. A student requiring staying beyond the closing time must obtain proper authorization from Hostel Warden.
- f) Prefects along with assistant prefect of the respective hostels shall take attendance at 8:00 PM everyday and submit the weekly attendance report to the warden every Monday.
- g) Any Hostellers wishing to stay out for the night/ weekend should submit an application to the Warden for permission. For girls, consent of the Guardian/ Parents must be communicated to the concerned Warden. Such permission shall be given once in a month for a maximum period of two nights only, preferably during weekends. No student shall leave the hostel without prior permission of the hostel warden.
- h) Any Hosteller staying out of Hostel without obtaining prior permission from the Warden shall be liable to disciplinary action and expulsion. The first offence of this nature, if supported by satisfactory explanation verified from the Parent/ Local guardian, may be considered after imposing a fine of Rs 200.00/- (Rupees Two Hundred Only). However, a repetition of the same offence shall result in expulsion.
- i) In case a student requires hospitalization, His/ her parents/ guardian must be informed. Parents / guardian are required to communicate to the concerned Warden in this regard.
- j) Students shall inform the warden for any extension of leave though verbal or written communication.
- k) Students should refrain from any activity that is likely to infringe on the privacy of others or interfere with their studies.
- l) The Warden/ Institute/ Hostel authorities shall conduct surprise checks periodically and if anyone is found violating the above rules, disciplinary action shall be taken against the defaulter. The hostel rooms are subject to inspection by the Institute/ Hostel authorities to make sure that they are kept neat and tidy. Unauthorized items like liquor, drugs, lethal weapons etc., are prohibited within the hostel premises.
- m) Students are prohibited from consuming alcoholic drinks, drugs, cigarettes, tobacco products or any other intoxicants inside the hostel and are strictly prohibited from entering the hostel after consuming such items. Consumption of prohibited items shall be liable for strict disciplinary action, including expulsion/rustication from Hostel/ Institute.
- n) No Parent/ Guardian/ Visitor of a student shall be allowed to stay in their room without permission from the warden. Visitors are allowed to visit students in their common rooms, except in the girl's hostel. No hosteller is allowed to permit any visitor of the opposite sex in their room. If any visitor of the opposite sex is found, they shall be expelled from the institution without any warning.
- o) No party/ social gathering shall be allowed within the premises of the hostel unless prior permission is taken from the Warden/ Campus in charge.
- p) Study hour shall be strictly maintained for the welfare of all the students in the hostel. Students shall not visit rooms of other students after 8:00 PM.

- q) Students who are detained from the college are not entitled to stay in the hostel and hence shall not be granted Hostel admission. However, depending on the availability of seats, the warden may admit the detained students based on their performance after full payment of hostel admission fee.
- r) A detained scholar under special circumstances may be permitted to stay in the hostel for a maximum period of 1 month during examination time based on the availability of seat. Permission shall be granted based on the recommendation from the department HOD and with the knowledge of the parents. Students can write an application for such stay to the Warden. They have to pay Mess Fee to the Mess in-charge on the basis of daily rate prevailing at the time of applying. During the stay in the hostel the student should strictly adhere to the rules and regulations of the hostel.

9.7. Mess Rules

- a) The term of Prefect and assistant prefect shall be 1 year only.
- b) The term for Mess manager and assistant mess manager shall be 3 months only.
- c) The Prefect and Mess manager shall be entitled to 100% concession in mess fee for the extra responsibility they perform during their tenure.
- d) Every hosteller shall join the hostel mess. Meals/ food should not be cooked in the individual room. The timing of the mess shall be
 - i) Morning: 7:00-8:30 A.M
 - ii) Evening: 5:00-7:00 P.M.
- e) All hostellers must pay the mess fees before 10th of every month. Defaulters shall be charged fine of Rs.50.00/- (Rupees Fifty Only) per day till 15th of the month. After the 15th day it shall be Rs.100.00/- (Rupees One Hundred Only) per day. Habitual offender shall be expelled from the hostel after recovering the due amount.
- f) Audit of the mess account should be carried out at the end of every month. The audit committee shall consist of Prefect (convener), mess manager (Secretary) and one representative from every batch of students, the warden shall be part of the committee from time to time. The batch representative shall be rotated every month. The audit report should be submitted to the warden every month.
- g) If a student is on leave from the hostel for continuously more than 10 days he/ she can apply for deduction in the mess fee. This rule shall apply only to those who take leave as per the procedure.

10. Change of Branch/ Discipline

- 10.1. Normally, a student admitted to a particular branch/ discipline of the undergraduate programme shall continue studying in that discipline till completion.
- 10.2. However, in special cases the School may permit a student to change from one discipline of studies to another after the first two semesters.

Such changes shall be permitted, in accordance with the provisions laid down hereinafter, from a B. tech. programme in any discipline to a B. Tech programme in any other discipline.
- 10.3. Only those students shall be eligible for consideration of a change of discipline after the second semester, who have completed all the common credits required in the first two semesters of their studies, in their first attempt.
- 10.4. Applications for a change of discipline must be made by intending eligible students in the prescribed form. The Academic Section shall call for applications in the beginning of the odd semester of each academic year and the completed forms must be submitted by the last date specified in the notification.
- 10.5. Students may enlist up to three choices of discipline, in order of preference, to which they wish to change over. It shall not be permissible to alter the choice after the application had been submitted.
- 10.6. Change of discipline shall be made strictly in order of merit of the applicants. For this purpose, the student must have a CGPA of atleast 7.5 obtained at the end of the second semester. In case of a tie the JEE (MAIN) Score of the applicants shall be considered. In the absence of JEE (MAINS) score, the department may devise its own strategy to select the candidates.
- 10.7. The applicants may be allowed a change in discipline, strictly in order of merit, subject to the limitation that the strength of a branch should not fall below the existing strength by more than ten percent and should not go above the sanctioned strength by more than ten percent.

- 10.8. All changes of discipline made in accordance with the above rules shall be effective from the third semester of the applications concerned. No change of discipline shall be permitted after this.
- 10.9. All changes of discipline shall be final and binding on the applicants. No student shall be permitted, under any circumstances, to refuse the change of discipline offered.

11. Course Structure

- 11.1. In order to qualify for a B. Tech. degree of the School, a student is required to complete the credit requirement as prescribed in the curriculum for a particular discipline/ programme. The credit requirements for a programme shall be as per the total credits offered by the respective Departments.
- 11.2. The course work requirements may be broadly divided into following main groups of subjects:
- i. Base Course (Humanities, Social Sciences, Applied Sciences and Mathematics)
 - ii. Core Engineering Courses (Departmental and Inter-Disciplinary)
 - iii. Elective Courses (Departmental and Inter-Disciplinary)
- 11.3. Every B. Tech programme shall have a curriculum and syllabi for the courses approved by the different Board of Undergraduate Studies (BUGS) of the University/School. BUGS shall discuss and recommend the syllabi of all the under graduate courses offered by the department from time to time before sending the same to the School Board and make recommendations to the A.C. for consideration and approval.
- 11.4. Medium of instruction, project report and examination shall be in English.
- 11.5. The curriculum of a department shall also include an industrial/ summer/ winter training for 6-8 weeks duration. The training work are to be satisfactorily completed by every student. The training may be obtained during any summer/ winter vacation after the student has completed 4th semester and before 7th semester.
- 11.6. Faculty Advisor: To help the students in planning their courses of study and getting general advice on the academic programme, the concerned department shall assign Faculty Advisor(s) for each batch of students. In the first year, the Dean shall assign Faculty Advisors from among the regular faculty.

12. Registration

- 12.1. Every student is required to register for the approved courses through the Faculty Advisor at the commencement of each semester on the day fixed for such registration and notified in the Academic Calendar.
- 12.2. Students who do not register on the day announced for the purpose may be permitted late registration up to the notified day in the Academic Calendar on payment of an additional late fee. However, the registration cannot be allowed after a period of 1 week from the date of registration. The registration fee and late fee may be changed from time to time.
- 12.3. Only those students shall be permitted to register who have
- A. cleared all school, hostel and library dues and fines (in any) of the previous semesters.
 - B. paid all required advance payments of School and Hostel dues for the current semester and
 - C. not been debarred from registering on any specific ground.
- 12.4. A student who obtains a CGPA lower than 5.0 with grade 'E' or grade 'F' in some subjects may be permitted by the Dean of Academic affairs on the recommendations of the BUGS to repeat one or more E graded subjects along with the failed subjects, provided, the subject(s) is/are being offered therein.
- 12.5. When a student re-registers for a subject, in accordance with Section 13.5, Her/His new grade shall be used for SGPA and CGPA calculation.

13. Examination Rules

13.1. A semester shall normally consist of 1 Mid-Term Examination and 1 End-Term Examination. The mark distribution in theory and practical courses shall be as follows:-

I.Theory

Sessional Assessment		End - Term	Total
Mid-Term	Assignments/ quiz/ presentation/ tests		
30	10	60	100

II.Practical

Sessional Assessment			End-Term Practical Examination	Total
Assignments/ tests/charts	Practical Record	Viva Voce		
15	15	10	60	100

13.2. Mid Term Examination.

- a) Mid term examination shall be centrally conducted by the office of the Dean in the middle of the semester as per academic calendar.
- b) Notice for Mid term examination shall be issued by the Dean at least 7(seven) days ahead of the examinations.
- c) A student registering for a course must sit for the mid term examination.

13.3. End Term Examination.

- a) The theory paper of end term examination shall be centrally conducted by the office of the Dean. The practical examination(s) shall be completed by the course teacher/instructor at least one week prior to commencement of theory examination(s). Heads/ In-charges of the Department shall monitor the completion of the courses of their discipline offered in a semester.
- b) The dates and time table shall be notified by the Dean of the School at least 15 days ahead of the examination. The Head of the Department shall notify the dates of practical examination(s) to ensure their completion one week before commencement of theory examination.

13.4. To pass in a course, a student must secure 45% marks. Mid-Term, Practical and End-Term Examinations shall be mandatory.

13.5. If a student obtains 'F' Grade in any course,

- a. She/ He may be allowed to register and re-take (or re-assess) the course as and when the course is offered by the Department in the next Academic session only. A student shall normally be allowed to register and re-take the course and attendance shall be exempted for that course provided She/ He attempted all the Examinations/ sessional assessment mentioned in 13.1. in the first attempt. However, the student must keep in touch with the course instructor and get the relevant study materials. For a repeat course, the student shall appear in all the Examinations listed in section 13.1. and perform all assignments/ exercises given by the Course Instructor.
- b. In case a student does not attend any of the courses in the current semester, the student has to register afresh for the courses in the next Academic session as and when the course(s) is/are offered. The rules in section 13.5.(a) shall not be applicable. The student shall not be promoted to the Next Year until She/ He completes the courses by completing all the Sessional Assessment and Examinations prescribed in section 13.1. in that semester and satisfies the conditions in section 13.6. Attendance for those courses shall be mandatory and Rules of section 7 shall be applicable.
- c. A student must pay Rs. 300 only (Rupees Three Hundred only) per course if She/ He registers as per section 13.5.(a). However, if a Student registers as per section 13.5.(b), the normal registration fee for that semester shall be applicable.

13.6. Promotion Rules

- a. To get promotion to the next year, a student must not have a total of more than 3 (three) back papers in the previous semesters.
- b. There shall be no restriction of maximum number of back papers for registration to even semesters.

13.7. Custody of Answer Script

The answer scripts of all examinations shall be in the custody of the Dean of the School.

13.8. Result Recommendation Committee

The results of B. Tech. Examinations shall be recommended for declaration by a Result Recommendation Committee.

The Committee shall consist of the following members constituted by the Dean for a period of 2 (two) years :

- | | | |
|---|---|------------------|
| 1) Dean | : | Chairman |
| 2) One Professor (by rotation) | : | Member |
| 3) Two Associate Professors (by rotation) | : | Members |
| 4) Two Assistant Professors (by rotation) | : | Members |
| 5) In-Charge, Academic Cell (UG) | : | Member Secretary |

The corrected results shall be compiled, CGPA worked out, and tabulated results shall be sent by the Dean to the Controller of Examinations (COE), Nagaland University in each semester for final declaration of results. The results of the last semester on being notified by the Dean of the School shall be integrated with the earlier semester (s) results for compilation of marks/grades point and final CGPA.

14. Project Evaluation

- a. The project work is normally in two stages, each spread over semester 7 and semester 8. At the end of the first stage, the student is required to submit a preliminary report of Her/ His work within the prescribed date to the project supervisor. The second stage of the project is completed in the following semester.
- b. Three unbound typed copies of the project report prepared according to the prescribed format available in the academic section shall be submitted to the department at least one week before the probable date of oral examination. The oral examination shall be held within 1 month from the date of submission of the project. On successful completion of the oral examination, each student shall be required to submit corrected bound copy of the project one each to the department, library and supervisor.
- c. Extension of time usually not exceeding 1 month from the announced last date for submission of the project may be granted to the student in case of insufficient progress in the project work. Further, if the reports are not submitted within the allowed period of time, 'F' grade shall be awarded for the project.
- d. A student obtaining 'F' Grade in project shall have to register in the next semester and perform the project works again.
- e. The project evaluation shall be done by a panel consisting of the project supervisor, a faculty from relevant department of the school and one external faculty of the same discipline from other allied institution.

15. Duration of the B. Tech Programme

Normally a student should complete all the requirements for undergraduate programme in eight semesters (4 years).

However, academically weaker students who do not fulfill some of the requirements in their first attempt and have to repeat them in subsequent semesters and may be permitted up to 12 consecutive semesters (6 years from the first semester registration) to complete all the requirements of the degree.

16. Temporary withdrawal from the School

16.1. A student who has been admitted to an undergraduate programme of the School may be permitted to withdraw temporarily from the School on the grounds of prolonged illness or grave calamity in the family for a period of one semester or more, provided:

- a. He applies to the School within at least 6 weeks of the commencement of the semester or from the date She/ He last attended Her/His classes whichever is later, stating fully the reasons for such withdrawal together with supporting documents and endorsement of Her/His guardian.

- b. The School is satisfied that, counting the period of withdrawal, the student is likely to complete Her/His requirements of the B. Tech. degree within the time limits specified in section 15.1. above.
 - c. There are no outstanding dues or demands in the School/Hostel/Department/Library etc.
- 16.2. A student who has been granted temporary withdrawal from the School under the provisions of section 16.1. shall be required to pay fees/ charges (except tuition fees and hostel dues) till such time as Her/His name is on the Roll List. However, fees once paid shall not be refunded.
- 16.3. Normally, a student shall be permitted only one such temporary withdrawal during Her/ His tenure as a student of the under graduate programme.
- 16.4. After temporary withdrawal, the student has to repeat the same semester that She/ He has withdrawn as and when the semester starts in the next academic session.

17. Termination from/ Leaving the B. Tech Programme

- 17.1. A student is required to leave the school on the following grounds:
- a. A student failing to complete the B. Tech course in 6 years shall be issued Not Competent to Study Engineering (NCSE) certificate and his enrollment shall be terminated from the School.
 - b. If a student is absent for more than 6 (six) weeks in a semester without sanctioned leave Her/ His name shall be struck off the rolls.
 - c. A student may be expelled on the recommendations of the Students Disciplinary Action Committee.

17.2. Students Leaving the School

A students who wants to leave the School during or after a semester or on completion of degree programme must officially be discharged by the Dean of School on obtaining clearance certificate in prescribed form.

17.3. Refund of Caution Money

The caution money of the student shall be refunded 1(one) month after he/she leaves the school, subject to clearance of dues, if any. The claim form for refund of caution money shall not be entertained after a period of 1(one) year from the date of discharge of the student from the school. The caution money shall not be refunded if a student leaves the school without permission from competent authority and or he/she does not attend any class after admission.

18. Grading System

18.1. Based on the performance of a student, each student is awarded a final letter grade in each subject at the end of the semester. The letter grade and the corresponding grade points are as follows:

Grade	Marks Range	Grade points
O	91-100	10
A	81-90	9
B	71-80	8
C	61-70	7
D	51-60	6
E	5-50	5
F	Below 45	0

A letter grade 'F' in any subject implies a failure in that subject.

18.2. Semester Grade Point Average (SGPA) shall be computed for each semester. The SGPA shall be calculated as follows:

$$SGPA = \frac{\sum C_i \times G_i}{\sum C_i}$$

Where C_i is the credit assigned to a particular course and

G_i is the Grade Point awarded to a student in a particular course.

The Grade Point is calculated as in section 18.1.

#The SGPA shall be rounded up to 2 decimal points.

18.3. A Cumulative Grade Point Average (CGPA) shall be computed at the end of each semester and communicated to the students along with the SGPA and the grades for that semester.

The CGPA gives the cumulative performance of the student from the first semester up to the end of the semester to which it refers, and shall be calculated as follows:

$$CGPA = \frac{\sum SGPA_i \times TC_i}{\sum TC_i}$$

Where SGPA_i is the SGPA obtained in a semester and TC_i is the total credits in a semester.

Whenever a student repeats a course in any semester, the latest grade (s) obtained by him/ her in the course is to be considered in the computation of SGPA and CGPA from that semester onwards.

#The CGPA shall be rounded up to 1 decimal point.

18.4. Correction of grade points

If any discrepancy in the grade sheet/result is detected, it shall be rectified and necessary correction shall be done by the University.

18.5. Semester Report

Semester Report on prescribed form shall be issued by the Dean and copies shall be forwarded to the student. One such copy shall be retained by the Dean Office for record.

18.6. The Final Performance of a student on completion of the B. Tech Course shall depend on the CGPA. The performance of the Student shall be determined as shown below:-

CGPA	CLASS
8.0 and above	First Class with Distinction
6.5 to 7.9	First Class
5.5 to 6.4	Second Class
5.0 to 5.4	Pass
Below 5.0	Failed

19. Eligibility for the award of B. Tech

19.1. A student must complete the minimum total credit required for the award of B. Tech Degree in the respective Discipline/ Department. The minimum total credit shall be 150-160 in each Department.

19.2. A student shall be declared to be eligible for the award of B. Tech if She/He has

- Completed all the credit requirements for the degree with grade 'E' or Higher grade in each of the subjects.
- Obtained a CGPA of 5.00 or more at the end of the semester in which She/ He completes all the requirements for the degree.
- No dues to the School, department, hostels etc.
- No disciplinary action is pending against her/ him.

19.3. Each Department shall award GOLD medal to the Topper of the batch on completion of the Eight Semester based on the following criteria:-

- The student should have obtained CGPA of not less than 8.5 at the end of the 8th semester.
- The student should have cleared all the papers in the first attempt during the entire duration of the course.
- The student has not been placed under Academic/ conduct probation during the course of Her/ His studies.

19.4. The award of B. Tech degree must be recommended by the COE and approved by the Academic Council of the University.

20. SWAYAM/ MOOCs

- 20.1. *Each department of SET shall prepare a list of courses to be offered through the SWAYAM platform duly recommended by the respective BUGS.*
- 20.2. *On-line MOOC/SWAYAM/NPTEL courses shall contribute up to only 20% of the total courses being offered in a particular program in a Semester.*
- 20.3. *The courses offered on SWAYAM must supplement the teaching-learning process in the Institution. Every student opting a particular paper (course) would be required to register online for the MOOCs course/paper.*
- 20.4. *The Head of Department shall designate a course coordinator/facilitator to guide the students throughout the course duration and to facilitate/conduct the Lab/Practical sessions/examinations.*

20.5. Evaluation

Evaluation of MOOCs Course shall be done internally by the concerned faculty coordinator of the course and the marks/ grades shall be submitted to the Examination Cell before the last date of submission.

9. DEPARTMENTS

9.1. DEPARTMENT OF AGRICULTURAL ENGINEERING AND TECHNOLOGY

Department Incharge: **Dr. Pramod Ch Dihingia**

E-mail: pramod@nagalanduniversity.ac.in

The Department of Agricultural Engineering and Technology focuses and deals with the use of engineering tools and practices to solve the real world problem of crop production, handling and processing problems for food and fiber industry. "Everything else can wait but not Agriculture" with this famous motto, the department envisages to solve the problem with the application of scientific knowledge in diverse and multi-disciplinary activities for overall development of farming community and better livelihood.

The Agricultural Engineering Department of the school came into existence in 2008. The department follows four years degree course as adopted by the school.

Core field of Agricultural Engineering and Technology

- Soil and Water Engineering,
- Farm Power and Machinery Engineering
- Processing and Food Engineering
- Other interdisciplinary field.

AIMS AND OBJECTIVES:

- To provide scientific knowledge to increase agricultural production and productivity through better management of land and water resources
- To encourage the design and use of appropriate and more efficient agricultural machinery,
- To provide better techniques of post-harvest technology
- To design improved methods of processing and preservation of foods.

LABORATORIES OF AGRICULTURAL ENGINEERING AND TECHNOLOGY

- Agricultural Engineering Computing Lab
- Land and Water Engineering and Management Lab
- Farm Power and Machinery Engineering Lab
- Processing and Food Engineering Lab
- Engineering Workshop Lab (Common for all the branches)

TO DEVELOP THEIR SELF-CONFIDENCE TO HANDLE TECHNICAL MATTERS (MANDATORY FOR THE AWARD OF DEGREE):

- Industrial training for 30 days during pre-final year.
- Opportunity to do research through final year project.
- Poster Presentation
- Class presentation (PPT)
- Industrial Workshop Visit (FMP, SWE, PFE related)

TEACHING FACULTY

SL. No	NAME OF THE FACULTY	DESIGNATION
1	Dr. Chitrasen Lairenjam	Assistant Professor
2	Mr. Wungshim Zimik	Assistant Professor
3	Dr. Pramod Ch Dihingia	Assistant Professor
4	Mr. Imliwapang Jamir	Guest Faculty
5	Mr. Achumo Patton	Guest Faculty

9.2. DEPARTMENT OF BIOTECHNOLOGY

Department Incharge: **Dr. Hanumant Singh Rathore**

E-mail: hanumantsrathore@nagalanduniversity.ac.in

The Department is presently offering B.Tech. Biotechnology course, a four years degree programme under which the students will be taught on broad range of subjects related to Genetics, Microbiology, Molecular Biology, Bioenergetics, Tissue culture, Recombinant DNA Technology, Bioinformatics, Chemical engineering and Bioprocess engineering etc. The Department already has a Biotechnology lab which is equipped with modern biotechnological tools like PCR Thermal Cycle, Horizontal Electrophoresis Systems, Vertical Slab Gel Systems (Mini model), Vertical Slab Gel Systems (Slab Gel Regular Model), Transilluminator, Horizontal air flow cabinet, cold centrifuge, Distillation unit, Milipore water system, UV-visible spectrophotometer, Malvern zetasizer S90, etc. The Department has completed three projects sponsored by Department of Biotechnology, Government of India.

LABORATORY:

- Watson Molecular Biology Lab
- JC Bose Plant Tissue Culture Lab
- Dayhoff Bioinformatics Lab
- Pasteur Microbiology Lab
- Mendel Genetics Lab
- Biochemical Engineering Lab (Under construction)

THRUST AREAS OF RESEARCH:

- Molecular characterization of *Vibrio cholerae* transcription factors and also on the gene regulation of *Vibrio cholerae*.
- Characterization and application of Mithun (*Bosfrontalis*) Milk protein.
- Development of advance drug delivery system

TEACHING FACULTY

SL. N	NAME OF THE FACULTY	DESIGNATION
1	Dr. Imlitoshi Jamir	Assistant Professor
2	Dr. Rajkrishna Mondal	Assistant Professor
3	Dr. Hanumant Singh Rathore	Assistant Professor
4	Ms. Upasana Kakati	Guest Faculty
5	Mr. Ekonthung L. Kikon	Guest Faculty

9.3. DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Department Incharge : **Mr. Ramesh Singh**

E-mail : ramesh@nagalanduniversity.ac.in

The Department of Computer Science & Engineering emphasizes on the all-round development of the student, both in the theoretical and practical knowledge. The Department also takes special care in developing problem solving attitude in students and prepare them to be mentally equipped to join any organization.

VISION :

- To be a front runner in Technology
- The Department not only aims to produce industry ready graduates but also entrepreneurs.

THRUST AREAS:

- Multimedia
- Web Technology
- System Software
- Wireless Technology
- Networking
- Software Engineering
- Distributed Systems
- Operating System

TEACHING FACULTY

SL. No	NAME OF THE FACULTY	DESIGNATION
1	Mr. Chenlep Yakha Konyak	Assistant Professor
2	Mr. Akangjungshi Longkumer	Assistant Professor
3	Mr. Ramesh Singh	Assistant Professor
4	Mrs. Yanthungbeni Humtsoe	Guest Faculty
5	Mr. Imlitoshi Jamir	Guest Faculty
6	Mr. Aosungkum	Guest Faculty
7	Ms. Jennifer Avino Richa	Guest Faculty

9.4. DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Department Incharge : **Ms. Imesangla Ao**
 E-mail : imesangla@nagalanduniversity.ac.in

Electronics & Communication Engineering is about electronic components, integrated circuits, microprocessors and consists of designing, fabrication, testing, maintaining and supervising the manufacture of electronic equipments. The Department of Electronics and Communication Engineering focuses to impart education and training at the Undergraduate levels with special emphasis on design aspects of electronic systems. The training imparted to the students would be such that it will make them competent enough to be the fountain head of new ideas and innovations in Science and Technology and who shall contribute its growth in partnership with industries and develop and harness it for the welfare of the Nagas and the nation.

VISION:

To bring about a cultural revolution through digital technology and demonstrate the spirit of sharing, and caring by people who will create, collaborate and make Nagaland a better knowledgeable State.

THRUST AREAS OF RESEARCH:

- *Integrated electronics and circuits*
- *Tele-communication*
- *Computer technology*
- *Power electronics*
- *GPS systems*
- *Communication Systems*
- *Antennas*
- *Satellite transponders*
- *Signal processing based biomedical instruments*
- *VLSI chips*

TEACHING FACULTY

SL. No	NAME OF THE FACULTY	DESIGNATION
1	Ms. Ayangla Jamir	Assistant Professor
2	Mrs. Bendangchila Longkumer	Assistant Professor
3	Ms. Imesangla Ao	Assistant Professor
4	Ms. Merensongla Aier	Guest Faculty
5	Ms. Nungsangienla Longkumer	Guest Faculty
6	Ms. Monalita Sonar	Guest Faculty

9.5. DEPARTMENT OF INFORMATION TECHNOLOGY

Department Incharge : **Mr. Teisovi Angami**

E-mail : teisovi@nagalanduniversity.ac.in

The Department of Information Technology focuses in training students in the creation of Computer Based Information Systems for efficient storage, processing, analyzing and dissemination of information to cater to the needs of the people in making decision making process more effective.

VISION:

Information Technology has been the driving force for economic growth which has uplifted many all around the world. For reasons best known, Nagaland as such has not benefited by this economic growth. The Department of Information Technology, Nagaland University endeavors to bridge this gap which hopes to reduce the digital divide and hopefully bring about economic growth to the people of Nagaland in the near future. It is hoped that a new way of work culture will emerged in the state through IT. Our students will play an effective role as Technologists and make notable contribution to the development of our society.

THRUST AREAS OF RESEARCH:

- Information Systems Development
- Computer Networks
- Distributed Systems
- Web Technology
- Programming
- Image Processing
- Knowledge Representation
- Artificial Neural Networks
- Ontology Dynamic

OBJECTIVES:

- To foster innovative thinking among the students in the field of IT
- To orient students with the skills required in IT industry
- To motivate students in the field of research
- To equip the students with cutting edge IT Technologies

POSITION OF TEACHING FACULTY

SL. No	NAME OF THE FACULTY	DESIGNATION
1	Mr. Shanchamo Yanthan	Assistant Professor
2	Mr. Teisovi Angami	Assistant Professor
3	Mr. Sudipta Patowary	Assistant Professor
4	Mr. Sourav Hazarika	Assistant Professor
5	Ms. Imtisenla Longkumer	Guest Faculty
6	Ms. Noktienla Aier	Guest Faculty

9.6. COMMON POOL

Incharge : **Dr. Chitrasen Lairenjam**
 E-mail : **chitrasen@nagalanduniversity.ac.in**

The School of Engineering and Technology has a Common Pool section which teaches the common Engineering courses like Engineering Mathematics, Physics, Chemistry, Basic Electronics, Basic Electricals, Engineering Mechanics etc. The Common Pool section has a computer lab with a capacity of 30 computers to conduct practical courses for the First Year students. The Central Workshop offers practical courses like welding, fitting, carpentry, sheet metal etc. in the First Year Engineering as well as for other semesters in the Agricultural Engineering & Technology Department.

POSITION OF TEACHING FACULTY

SL. No	NAME OF THE FACULTY	SPECIALIZATION
1	Dr. Pelesakuo Kehie	Chemistry
2	Mr. Diliraj Upadhaya	Physics
3	Ms. Yasmin Choudhry	Physics
4	Dr. Sanjay Sarkar	Mathematics
5	Mr. Chipem Zimik	Mathematics
6	Mr. Kolimeto Chasie	Mechanical Engineering
7	Mr. Maongtemsu Pongener	Mechanical Engineering
8	Mr. Mayangtoba Longkumer	Electrical Engineering
9	Mr. Binay Kumar Yadav	Electrical engineering

10. COURSE STRUCTURE**10.1. B.TECH. FIRST YEAR (COMMON TO ALL DISCIPLINE)****1ST SEMESTER**

SL/ No	Subject Code	Course Name	Contact hours per week			Credits
			L	T	P	
Theory						
1	G1T01	Engineering Mathematics-I	3	1	-	4
2	G1T02	Engineering Physics-I	3	-	-	3
3	G1T03	Technical English	2	1	-	3
4	G1T04	Basic Electrical Engineering	3	-	-	3
5	G1T05	Engineering Chemistry	3	-	-	3
6	G1T06	Engineering Graphics	1	-	-	1
Total Theory						17
Practical						
1	G1L01	Engineering Physics-I Lab	-	-	2	1
2	G1L02	Engineering Chemistry Lab	-	-	2	1
3	G1L03	Engineering Graphics Lab	-	-	4	1
Total Practical						4
Total of Semester						21

2ND SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week			Credits
			L	T	P	
Theory						
1	G2T01	Engineering Mathematics-II	3	1	-	4
2	G2T02	Engineering Physics-II	3	-	-	3
3	G2T03	Fundamentals of Computing	3	-	-	3
4	G2T04	Basic Electronics	3	-	-	3
5	G2T05	Engineering Mechanics	2	1	-	3
6	G2T06	Environmental Science	3	-	-	0
Total Theory						16
Practical						
1	G2L01	Workshop Practice	-	-	4	2
2	G2L02	Basic Electronics Lab	-	-	2	1
3	G2L03	Fundamentals of Computing Lab	-	-	2	1
4	G2L04	Engineering Physics-II Lab	-	-	2	1
Total Practical						5
Total of Semester						21

10.2 AGRICULTURAL ENGINEERING AND TECHNOLOGY (THIRD SEMESTER ONWARDS)

SECOND YEAR

3RD SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week				Credits
			L	T	P	Total	
Theory							
1	MAT3T1	Mathematics - III	3	-	-	3	3
2	AE3T01	Strength of Material	3	-	-	3	3
3	AE3T02	Soil Mechanics	3	-	-	3	3
4	AE3T03	Farm Power	2	-	-	2	2
5	AE3T04	Electrical Machine & Power utilization	2	-	-	2	2
6	AE3T05	Engineering properties of Biological Material & Food Quality	2	-	-	2	2
7	AE3T06	Machine drawings & Computer graphics	2	-	-	2	2
Total Theory						17	17
Practical							
1	AE3L01	Soil Mechanics Lab	-	-	2	2	1
2	AE3L02	Farm Power Lab	-	-	2	2	1
3	AE3L03	Engineering properties of Biological Material & Food Quality Lab	-	-	2	2	1
4	AE3L04	Machine drawing & Computer graphics lab	-	-	2	2	1
Total Practical						8	4
Total of Semester						25	21

4TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week				Credits
			L	T	P	Total	
Theory							
1	AE4T01	Surveying and Leveling	2	-	-	2	2
2	AE4T02	Theory of Machines	2	1	-	3	3
3	AE4T03	Design of structures	2	-	-	2	2
4	AE4T04	Watershed hydrology	2	1	-	3	3
5	AE4T05	Fluid Mechanics	2	1	-	3	3
6	AE4T06	Crop Process Engineering	2	-	-	2	2
7	AE4T07	Engineering Thermodynamics and Heat Engine	3	-	-	3	3
Total Theory						17	17
Practical							
1	AE4L01	Watershed Hydrology -I Lab	-	-	2	2	1
2	AE4L02	Crop Process Engineering Lab	-	-	2	2	1
3	AE4L03	Surveying and Leveling Lab	-	-	2	2	1
Total Practical						6	3
Total of Semester						24	21

THIRD YEAR

5TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week				Credits
			L	T	P	Total	
Theory							
1	AE5T01	Workshop Technology	2	-	-	2	2
2	AE5T02	Machine Design	2	1	-	3	3
3	AE5T03	Heat & mass Transfer	2	-	-	2	2
4	AE5T04	Farm Machinery & Equipment	2	-	-	2	2
5	AE5T05	Ground Water, Wells & Pumps	2	-	-	2	2
6	AE5T06	Drying & Storage Engineering	3	-	-	3	3
7	AE5T07	Soil & water Conservation Engg.	3	-	-	3	3
Total Theory						17	17
Practical							
1	AE5L01	Farm Machinery & Equipment Lab	-	-	2	2	1
2	AE5L02	Ground Water, Wells & Pumps Lab	-	-	2	2	1
3	AE5L03	Drying & storage engineering Lab	-	-	2	2	1
4	AE5L04	Soil & Water conservation Engineering Lab	-	-	2	2	1
Total Practical						8	4
Total of Semester						25	21

6TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week				Credits
			L	T	P	Total	
Theory							
1	AE6T01	Agriculture for Engineers	3	-	-	3	3
2	AE6T02	Refrigeration & Air conditioning	2	1	-	3	3
3	AE6T03	Transfer Process in Food Engineering	3	0	-	3	3
4	AE6T04	Tractor systems & controls	2	-	-	2	2
5	AE6T06	Irrigation and Drainage Engineering -I	2	-	-	2	2
6	AE6EL	Elective-I*	3	-	-	3	3
Total Theory						16	16
Practical							
1	AE6L01	Tractors systems & controls Lab	-	-	2	2	1
2	AE6L02	Irrigation and Drainage Engineering I Lab	-	-	2	2	1
Total Practical						4	2
Total of Semester						20	18

Elective papers-I*

1. (AE6EL01) Agribusiness management and trade.
2. (AE6EL02) Entrepreneurship development and communication skills.
3. (AE6EL03) Design and maintenance of green house.
4. (AE6EL04) Soil and Water Conservation Structure

FOURTH YEAR

7TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week				Credits
			L	T	P	Total	
Theory							
1	AE7T01	Irrigation and Drainage Engineering -II	2	-	-	2	2
2	AE7T02	Mechanics of Tillage & Traction	2	-	-	2	2
3	AE7T03	Unit Operation in Dairy and Food Engineering	3	-	-	3	3
4	AE7T04	Statistical Hydrology	2	1	-	3	3
5	AE7T05	Industrial Training	-	-	-	-	2
6	AE7T06	Project - I	-	-	4	4	2
7	AE7EL	Elective-II*	3	-	-	3	3
Total Theory						17	17
Practical							
1	AE7L01	Mechanics of Tillage & Traction Lab	-	-	2	2	1
2	AE7L02	Unit Operation in Dairy and Food Engineering Lab	-	-	2	2	1
Total Practical						4	2
Total of Semester						21	19

*Elective papers-II**

1. (AE7EL01) Remote sensing and GIS application.
2. (AE7EL02) Tea Technology.
3. (AE7EL03) Development of processed products and equipment.
4. (AE7EL04) Waste and by-product utilization.
5. (AE7EL05) Food Processing Plant Design & Layout

8TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week				Credits
			L	T	P	Total	
Theory							
1	AE8T01	Tractor Design & Testing	3	-	-	3	3
2	AE8T02	Food Process and Packaging Technology	3	-	-	3	3
3	AE8T03	Watershed planning & Management	2	-	-	2	2
4	AE8T04	Project - II	-	-	8	8	4
5	AE8EL	Elective - III*	3	-	-	3	3
6	G8T01	Indian Constitution	-	-	-	-	NC
Total Theory						18	15
Practical							
1	AE8L01	Tractor design & testing Lab	-	-	2	2	1
2	AE8L02	Food Process and packaging technology Lab	-	-	2	2	1
3	AE8L03	Seminar	-	-	2	2	1
Total Practical						6	3
Total of Semester						24	18

*Elective papers-III**

1. (AE8EL01) Human Engineering and safety.
2. (AE8EL02) Biomass management for fodder and energy.
3. (AE8EL03) Production technology of agricultural machines.
4. (AE8EL04) Renewable Energy Source
5. (AE8EL05) Organic Farming for Sustainable Agricultural Production.

TOTAL CREDITS = 42+118=160

10.3 BIOTECHNOLOGY (THIRD SEMESTER ONWARDS)**SECOND YEAR****3RD SEMESTER**

SL/ No	Subject Code	Course Name	Contact hours per week				Credits
			L	T	P	Total	
Theory							
1	BT3T01	Biostatistics	3	-	-	3	3
2	BT3T02	Biochemistry	3	-	-	3	3
3	BT3T03	Microbiology	3	-	-	3	3
4	BT3T04	Thermodynamics and Kinetics	3	-	-	3	3
5	CSB302	Data Structures & algorithm	3	-	-	3	3
Total Theory						15	15
Practical							
1	BT3L01	Biochemistry Lab	-	-	4	4	2
2	BT3L02	Microbiology Lab	-	-	4	4	2
3	CSB312	Data Structures & algorithm Lab	-	-	3	3	1.5
Total Practical						11	5.5
Total of Semester						26	20.5

4TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week				Credits
			L	T	P	Total	
Theory							
1	BT4T01	Cellular Metabolism	3	-	-	3	3
2	BT4T02	Cell and Developmental Biology	3	-	-	3	3
3	BT4T03	Molecular Biology	3	-	-	3	3
4	BT4T04	Genetics	3	-	-	3	3
5	AE4T05	Fluid Mechanics	2	-	-	3	3
Total Theory						15	15
Practical							
1	BT4L01	Molecular Biology Lab	-	-	4	4	2
2	BT4L02	Fluid Mechanics Lab	-	-	2	2	1
Total Practical						6	3
Total of Semester						21	18

THIRD YEAR

5TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week				Credits
			L	T	P	Total	
Theory							
1	BT5T01	Biophysics	3	-	-	3	3
2	BT5T02	Enzyme Technology	3	-	-	3	3
3	BT5T03	Immunology	3	-	-	3	3
4	BT5T04	Plant Biotechnology	3	-	-	3	3
5	ITB502	Database Management Systems	3	-	-	3	3
Total Theory						15	15
Practical							
1	BT5L01	Plant Biotechnology-Lab	-	-	4	4	2
2	BT5L02	Immunology Lab	-	-	2	2	1
3	ITB511	Database Management Systems Lab	-	-	3	3	1.5
Total Practical						9	4.5
Total of Semester						24	19.5

6TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week				Credits
			L	T	P	Total	
Theory							
1	BT6T01	Recombinant DNA Technology and Applications	3	-	-	3	3
2	BT6T02	Bioinformatics	3	-	-	3	3
3	BT6T03	Heat and Mass Transfer	3	-	-	3	3
4	BT6T04	Production and operations managements	3	-	-	3	3
5	BT6E01/02/03	Elective-I*	3	-	-	3	3
Total Theory						15	15
Practical							
1	BT6L01	Bioinformatics Lab	-	-	2	2	1
2	BT6L02	Recombinant DNA Technology Lab	-	-	4	4	2
Total Practical						6	3
Total of Semester						21	18

*Elective-I:

1. Stem cell in health care
2. Bio-pharmaceutical technology
3. Proteomics and Genomics

FOURTH YEAR

7TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week				Credits
			L	T	P	Total	
Theory							
1	BT7T01	Food Biotechnology	3	-	-	3	3
2	BT7T02	Pollution Control & Environmental Biotechnology	3	-	-	3	3
3	BT7T03	Bioreactor Design and Analysis	3	-	-	3	3
4	BT7T04	Animal Biotechnology	3	-	-	3	3
5	BT7E01/02/03	Elective-II*	3	-	-	3	3
Total Theory						15	15
Practical							
1	BT7L01	Food Biotechnology Lab	-	-	2	2	1
2	BT7L02	Biochemical Lab	-	-	4	4	2
3	BT7P01	Mini project Seminar (Review and presentation)	-	-	-	-	1
4	BT7L03	Colloquium	-	-	-	-	1
Total Practical						6	5
Total of Semester						21	20

*Elective-II**

1. Therapeutic hormone and growth factor
2. Industrial biotechnology
3. Microbial process engineering

8TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week				Credits
			L	T	P	Total	
Theory							
1	BT8T01	Biosafety, Bioethics and Intellectual property rights in Biotechnology	3	-	-	3	3
2	BT8T02	Agricultural Biotechnology	3	-	-	3	3
3	BT8E03	Elective-III*	3	-	-	3	3
4	G8T01	Constitution of India	3	-	-	3	0
Total Theory						12	9
Practical							
1	BT8P02	Project	-	-	20	20	10
Total Practical						20	10
Total of Semester						32	19

*Elective-III**

1. Diagnostic Techniques
2. Bio analytical Techniques
3. Protein Modeling

TOTAL CREDITS= 42 + 115 = 157

10.4 COMPUTER SCIENCE & ENGINEERING (THIRD SEMESTER ONWARDS)**SECOND YEAR****3RD SEMESTER**

SL/ No	Subject Code	Course Name	Contact hours per week			Credits
			L	T	P	
Theory						
1	CSB301	Object Oriented Programming	3	0	0	3
2	CSB302	Data Structures & Algorithm	3	0	0	3
3	CSB303	Computer Graphics & Virtual Reality	3	0	0	3
4	MAT3T2	Differential Calculus	3	1	0	4
5	EC3T03	Digital Electronics & Logic Design	2	1	0	3
Practical						
1	CSB311	Object Oriented Programming Lab	0	0	3	1.5
2	CSB312	Data Structures & Algorithm Lab	0	0	3	1.5
3	EC3L02	Digital Electronics & Logic Design Lab	0	0	3	1.5
Total Credits			14	2	9	20.5

4TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week			Credits
			L	T	P	
Theory						
1	CSB401	Design & Analysis of Algorithms	3	0	0	3
2	CSB402	Web & Internet	3	0	0	3
3	CSB403	Formal Language & Automata Theory	3	0	0	3
4	CSB404	Computer Organization & Architecture	4	0	0	4
5	MAT4T2	Discrete Mathematics	3	1	0	4
Practical						
1	CSB311	Object Oriented Programming Lab	0	0	3	1.5
2	CSB312	Data Structures & Algorithm Lab	0	0	3	1.5
3	EC3L02	Digital Electronics & Logic Design Lab	0	0	3	1.5
Total Credits			16	1	8	21

THIRD YEAR

5TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week			Credits
			L	T	P	
Theory						
1	CSB501	Graph Theory	3	0	0	3
2	CSB502	Operating System	3	0	0	3
3	CSB503	Database Management Systems	3	0	0	3
4	CSB504	Software Engineering	3	0	0	3
5	MAT5T1	Numerical Analysis & Probability	3	1	0	4
Practical						
1	CSB511	Software Engineering Lab	0	0	3	1.5
2	CSB512	Operating System Lab	0	0	3	1.5
3	CSB513	Database Management Systems Lab	0	0	3	1.5
Total Credits			15	1	9	20.5

6TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week			Credits
			L	T	P	
Theory						
1	CSB601	Compiler Design	4	0	0	4
2	CSB602	Computer Networks	3	0	0	3
3	CSB62X	Elective-I	3	0	0	3
4	CSB62X	Elective-II	3	0	0	3
5	HSB601	Project Management & Entrepreneurship	2	0	0	2
Practical						
1	CSB611	Computer Networks Lab	0	0	3	1.5
2	CSB612	Compiler Design Lab	0	0	3	1.5
3	CSB613	Application Programming Lab	0	1	3	2.5
Total Credits			15	1	9	20.5

ADMISSION BROCHURE 2019-20

FOURTH YEAR

7TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week			Credits
			L	T	P	
Theory						
1	CSB701	Distributed System	3	0	0	3
2	CSB702	Machine Learning	3	0	0	3
3	CSB72X	Elective-III	3	0	0	3
4	CSB72X	Elective-IV	3	0	0	3
Practical						
1	CSB711	Project-I #	0	0	12	6
2	CSB712	Machine Learning Lab	0	0	3	1.5
3	CSB713	Colloquium-I*	0	0	0	0 (No credit)
Total Credits			12	0	15	19.5

- * The student will give presentation (Colloquium-I) on the summer/winter/industrial training (6 - 8 weeks) that She / He underwent during the vacation period after 5th or 6th semester. The credit(Pass or Fail) will be awarded in the 7th Semester under Colloquium-I. Presentation will be conducted in the beginning of 7th semester.
- # The student will submit a synopsis for their Project at the beginning of the semester in a specified format which should be approved by the departmental committee. The student will also have to present the progress of their project through seminars and progress reports

8TH SEMESTER

SL/ No	Subject Code	Course Name	Contact hours per week			Credits
			L	T	P	
Theory						
1	CSB82X	Elective-V	3	0	0	3
2	CSB83X	Open Elective-I	3	0	0	3
3	G8T01	Constitution of India	3	0	0	0 (No credit)
4	HSB801	Human Relations at work	2	0	0	2
Practical						
1	CSB811	Project-II	0	0	16	8
Total Credits			11	0	16	16

Total Credits = 42+118= 160

LIST OF ELECTIVE

<i>Sl. No.</i>	<i>Course Code</i>	<i>Semester</i>	<i>Course Title</i>	<i>L</i>	<i>T</i>	<i>P</i>	<i>Total Credits</i>
1	CSB621	6	Data Mining	3	0	0	3
2	CSB622	6	Data Analytics	3	0	0	3
3	CSB623	6	Information Retrieval	3	0	0	3
4	CSB624	6	Multimedia Technology	3	0	0	3
5	CSB625	6	Software Testing	3	0	0	3
6	EC6T06	6	Information Theory & Coding	3	0	0	3
7	EC8T01	6	Digital Image Processing	3	0	0	3
8	MAT6T1	6	Operations Research	3	0	0	3
LIST OF ELECTIVE							
1	CSB721	7	Design & Management of Computer Network	3	0	0	3
2	CSB722	7	Human Computer Interaction	3	0	0	3
3	CSB723	7	Cloud Computing	3	0	0	3
4	CSB724	7	Wireless Sensor Networks	3	0	0	3
5	CSB725	7	Internet-of- Things	3	0	0	3
6	CSB726	7	Real Time Systems	3	0	0	3
7	CSB727	7	Advanced Computer Architecture & parallel pro-gramming	3	0	0	3
8	EC7EL1	7	Embedded Systems & Design	3	0	0	3
LIST OF OPEN ELECTIVE							
1	CSB821	8	Distributed Database	3	0	0	3
2	CSB822	8	Artificial Intelligence	3	0	0	3
3	CSB823	8	Speech & Natural Language Processing	3	0	0	3
4	CSB824	8	Neural Networks & Deep Learning	3	0	0	3
LIST OF OPEN ELECTIVE							
1	CSB831	8	Cryptography & Network Security	3	0	0	3
2	CSB832	8	Mobile Applications & Services	3	0	0	3
3	CSB833	8	Cyber Law & Ethics	3	0	0	3
4	CSB834	8	Linux Internal	3	0	0	3

The following courses will be offered through MOOCs/SWAYAM/NPTEL with in-house examination.

1. Embedded Systems
2. Software Testing
3. Artificial Intelligence
4. Internet-of-Things
5. Cryptography & Network Security

The following practical lab will be conducted under virtual lab.

1. Computer Organization & Architecture Lab
2. Software Engineering Lab

10.5. ELECTRONICS & COMMUNICATION ENGINEERING (THIRD SEMESTER ONWARDS)

SECOND YEAR

3rd Semester

SL. No.	Subject Code	Type	Course Name	L	T	P	Credits	Contact Hrs/Week
THEORY								
1	EC3T01	PC	Network Theory	3	-	-	3	3
2	EC3T02	PC	Electronic Devices & Circuits	3	-	-	3	3
3	EC3T03	PC	Digital Electronics & Logic Design	3	-	-	3	3
4	EC3T04	ES	Electrical Engineering Material	2	-	-	2	2
5	ITB303	OE	Data Structures & Algorithm	3	-	-	3	3
6	MAT3T1	BS	Mathematics-III	3	-	-	3	3
PRACTICAL								
7	EC3L01	PC	Electronic Devices & Circuits Lab	-	-	2	1	2
8	EC3L02	PC	Digital Electronics & Logic Design Lab	-	-	3	1.5	3
9	ITB312	OE	Data Structures Lab	-	-	3	1.5	3
Total							21	25

4th Semester

SL. No.	Subject Code	Type	Course Name	L	T	P	Credits	Contact Hrs/Week
THEORY								
1	EC4T01	PC	Signals and Systems	3	-	-	3	3
2	EC4T02	PC	Electromagnetic Field Theory	3	-	-	3	3
3	EC4T03	PC	Microprocessor	3	-	-	3	3
4	EC4T04	PC	Linear Integrated Circuits	3	-	-	3	3
5	EC4T05	PC	Electronic Measurements & Instrumentation	3	-	-	3	3
6	MAT4T1	BS	Mathematics -IV	3	-	-	3	3
PRACTICAL								
7	EC4L01	PC	Microprocessor Lab	-	-	3	1.5	3
8	EC4L02	PC	Linear Integrated Circuits Lab	-	-	3	1.5	3
Total							21	24

THIRD YEAR

5th Semester

SL. No.	Subject Code	Type	Course Name	L	T	P	Credits	Contact Hrs/Week
THEORY								
1	EC5T01	PE	Antenna & Wave Propagation	3	-	-	3	3
2	EC5T02	PC	Introduction to VHDL	3	-	-	3	3
3	EC5T03	PC	Analog Communication	3	-	-	3	3
4	EC5T04	PC	Microcontroller	3	-	-	3	3
5	EC5T05	PC	Control Systems	3	-	-	3	3
6	EC5T06	OE	Management & Entrepreneurship	3	-	-	3	3
PRACTICAL								
7	EC5L01	PC	Microcontroller Lab	-	-	3	1.5	3
8	EC5L02	PC	VHDL Lab	-	-	3	1.5	3
Total							21	23

6th Semester

SL. No.	Subject Code	Type	Course Name	L	T	P	Credits	Contact Hrs/Week
THEORY								
1	EC6T01	OE	Digital Communication	3	-	-	3	3
2	EC6T02	PC	Digital Signal Processing	3	-	-	3	3
3	EC6T03	PC	VLSI Technology	3	-	-	3	3
4	EC6T04	PC	Computer Communication Networks	3	-	-	3	3
5	EC6T05	PE	Wireless Communication	3	-	-	3	3
6	EC6T06	PC	Information Theory Coding	3	-	-	3	3
PRACTICAL								
7	EC6L01	PC	Communication Systems Engineering Lab	-	-	2	1.5	3
8	EC6L02	OE	Digital Signal Processing Lab	-	-	2	1.5	3
Total							21	24
Summer training/ Industrial Training*								

*6-8 weeks training will be held after 6th semester. However, viva-voce will be conducted in the 7th semester and the credit will be added as a part of the colloquium.

FOURTH YEAR7th Semester

SL. No.	Subject Code	Type	Course Name	L	T	P	Credits	Contact Hrs/Week
THEORY								
1	EC7T01	PE	Microwave Engineering	3	-	-	3	3
2	EC7EL1/2/3	PE	Elective I	3	-	-	3	3
3	EC7EL4/5/6	PE	Elective II	3	-	-	3	3
PRACTICAL								
4	EC7SM	PC	Colloquium*	-	-	-	1	-
5	EC7L01	OE	Microwave Engineering Lab	-	-	2	1	2
6	EC7PJ	PC	Project**				6	6
Total							17	16

* The student will submit a synopsis for their seminars on any technical topic at the beginning of the semester in a specified format which should be approved by the departmental committee. The student will also have to present the progress of their project through seminars and progress reports.

** The student will have to submit a synopsis and do the literature survey for their major project in this semester.

8th Semester

SL. No.	Subject Code	Type	Course Name	L	T	P	Credits
THEORY							
1	EC8T01	OE	Digital Image Processing	3	-	-	3
2	EC8EL7/8/9	PE	Elective III	3	-	-	3
3	EC8EL10/11/12	PE	Elective IV	3	-	-	3
4	G8T01	MC	Constitution of India(MC)	-	-	-	(No Credit)
PRACTICAL							
5	EC8PJ	PC	Project	-	-	16	8
Total							17

Total Credits = 42+118= 160

Electives (I, II, III & IV)

Subject Code	Course name	Credit	L : P :T	Preferred Semester
EC7EL1	Embedded System & Design	3	3:0:0	VII
CSB502	Operating Systems(SWAYAM)	3	3:0:0	VII
EC7EL3	Biomedical Instrumentation	3	3:0:0	VII
EC7EL4	Multimedia Communication	3	3:0:0	VII
EC7EL5	Optical Fiber Communication	3	3:0:0	VII
EC7EL6	Power Electronics	3	3:0:0	VII
EC8EL7	Body Area Network	3	3:0:0	VII
EC8EL8	Nano Technology	3	3:0:0	VII
EC8EL9	Speech Processing	3	3:0:0	VIII
EC8EL10	Wireless Cellular and LTE 4G Broadband	3	3:0:0	VIII
CSB831	Cryptography & Network Security	3	3:0:0	VIII
EC8EL12	Fundamentals of MEMS	3	3:0:0	VIII

Courses which can be offered in MOOCS

Students can opt up to 20% of credits offered in current semester. The institution shall give the equivalent credit weightage to the students for the credits earned through online learning courses through SWAYAM platform in the credit plan of the program

Subject Code	Type	Course name	Credit	Preferred Semester
EC7EL6	OE	Fundamentals of Power Electronics	3	VII
EC6T01	OE	Fundamentals of Digital Communication	3	VI
EC3T03	PC	Digital Electronics Circuit	4	III
EC4T04	PC	Analog Circuits	3	IV
EC4T03	PC	Microprocessor and Microcontroller	3	IV/V
EC5T01	PE	Antennas	3	V
EC8HT02	PE	Biomedical Signal Processing	3	VIII
EC6T06	PC	Control Engineering	3	VI
EC7EL2	OE	Introduction to Operating Systems	3	VIII

10.6 INFORMATION TECHNOLOGY (THIRD SEMESTER ONWARDS)

SECOND YEAR

SEMESTER 3

SL/ No	Subject Code	Course Name	Contact hours per week			Credits
			L	T	P	
Theory						
1	ECB303	Digital Electronics & Logic Design	2	1	-	3
2	ITB301	Object Oriented Programming	3	-	-	3
3	ITB302	Computer Organization & Architecture	3	-	-	3
4	ITB303	Data Structures	3	-	-	3
5	MAT3T2	Differential Calculus	3	1	-	4
Total Credits (Theory)						16
Practical						
1	ITB311	Object Oriented Programming Lab	-	-	3	1.5
2	ITB312	Data Structures Lab	-	-	3	1.5
3	ECB313	Digital Electronics & Logic Design Lab	-	-	3	1.5
Total Credits(Practical)						4.5
Total Credits						20.5

SEMESTER 4

SL/ No	Subject Code	Course Name	Contact hours per week			Credits
			L	T	P	
Theory						
1	MAT4T2	Discrete Mathematics	3	1	-	4
2	ITB401	Computer Graphics & Virtual Reality	3	-	-	3
3	ITB402	Operating System	3	-	-	3
4	ITB403	Algorithm Analysis and Design	3	-	-	3
5	ITB404	Formal Language & Automata Theory	3	-	-	3
Total Credits (Theory)						16
Practical						
1	ITB411	Algorithm Analysis and Design Lab	-	-	3	1.5
2	ITB412	Operating System Lab	-	-	3	1.5
3	ITB413	Computer Graphics Lab	-	-	3	1.5
Total Credits(Practical)						4.5
Total Credits						20.5

THIRD YEAR

SEMESTER 5

SL/ No	Subject Code	Course Name	Contact hours per week			Credits
			L	T	P	
Theory						
1	MAT5T1	Numerical Analysis & Probability	3	1	-	4
2	ITB501	Computer Networks	3	-	-	3
3	ITB502	Database Management Systems	3	-	-	3
4	ITB503	Compiler Design	3	-	-	3
5		Elective I	3	-		3
Total Credits (Theory)						16
Practical						
1	ITB511	Database Management Systems Lab	-	-	3	1.5
2	ITB512	Compiler Design Lab	-	-	3	1.5
3	ITB513	Network Lab	-	-	3	1.5
Total Credits(Practical)						4.5
Total Credits						20.5

SEMESTER 6

SL/ No	Subject Code	Course Name	Contact hours per week			Credits
			L	T	P	
Theory						
1	ITB601	Industrial Economics & Principles of Management	3	-	-	3
2	ITB602	Web Technology	3	-	-	3
3	ITB603	Software Engineering	3	-	-	3
4		Elective II	3	-		3
Total Credits (Theory)						12
Practical						
1	ITB611	System Programming Lab	-	1	3	2.5
2	ITB612	Web Technology Lab	-	-	3	1.5
3	ITBPJ1	Project (Minor)	-	-	6	3
Total Credits(Practical)						7
Total Credits						19

FOURTH YEAR

SEMESTER 7

SL/ No	Subject Code	Course Name	Contact hours per week			Credits
			L	T	P	
Theory						
1	ITB701	Machine Learning	3	-	-	3
2		Elective III	3	-	-	3
3		Elective IV	3	-	-	3
4		Open Elective I	3	-	-	3
Total Credits (Theory)						12
Practical						
1	ITBCQ1	Colloquium*	-	-	-	-
2	ITBPJ2	Project (Major) #	-	-	12	6
Total Credits(Practical)						6
Total Credits						18

* The student will give presentation (Colloquium) on the summer/winter/industrial training/Internship (4 - 6 weeks) that She/ He underwent during the vacation period after 4th, 5th or 6th semester.

The student will submit a synopsis for their Project at the beginning of the semester in a specified format which should be approved by the departmental committee. The student will also have to present the progress of their project through seminars and progress reports.

SEMESTER 8

SL/ No	Subject Code	Course Name	Contact hours per week			Credits
			L	T	P	
Theory						
1		Elective V	3	-	-	3
2		Open Elective II	3	-	-	3
3	G8T01	Constitution of India (Mandatory Course)	-	-	-	-
Total Credits (Theory)						6
Practical						
1	ITB811	Communication Skills Lab	-	-	3	1.5
2	ITBPJ3	Project (Major) **	-	-	20	10
Total Credits(Practical)						11.5
Total Credits						17.5

** The student will continue the project work carried over from the previous semester. The student will submit the final report/thesis of the project in the format specified by the School.

Total Credits = 42+116= 158

LIST OF ELECTIVE COURSES

Subject code	Course Name	Credits	Lectures	Tutorials	Practical
ITBEL1	Distributed Database	3	3	-	-
ITBEL2	Mobile Computing (SWAYAM)	3	3	-	-
ITBEL3	Cloud Computing (SWAYAM)				
ITBEL4	Advanced Computer Architecture	3	3	-	-
ITBEL5	Management Information System and Knowledge Management	3	3	-	-
ITBEL6	Statistical Modeling and Tools	3	3	-	-
ITBEL7	Mobile Application Development	3	3	-	-
ITBEL8	Network Protocols	3	3	-	-
ITBEL9	XML and Web Services	3	3	-	-
ITBEL10	Service Oriented Architecture	3	3	-	-
ITBEL11	System Analysis and Design	3	3	-	-
ITBEL12	Decision Support System	3	3	-	-
ITBEL13	Advanced Java Technology	3	3	-	-
ITBEL14	.Net Technology	3	3	-	-
ITBEL15	Natural Language Processing	3	3	-	-
ITBEL16	Distributed Computing	3	3	-	-
ITBEL17	Multimedia Technologies	3	3	-	-
ITBEL18	Mobile Communications	3	3	-	-
ITBEL19	Cryptography and Information Security				
ITBEL20	Software Quality Assurance	3	3	-	-
ITBEL21	Soft Computing	3	3	-	-
ITBEL22	Blockchain Architecture & Design	3	3	-	-
ITBEL23	Advanced Database Systems	3	3	-	-
EC8T01	Digital Image Processing	3	3	-	-

LIST OF OPEN ELECTIVE COURSES

Subject code	Course Name	Credits	Lectures	Tutorials	Practical
ITBOE1	Artificial Intelligence	3	3	-	-
ITBOE2	Internet-of-Things	3	3	-	-
ITBOE3	Big Data Analytics	3	3	-	-
EC7EL1	Embedded Systems	3	3	-	-
ITBOE4	E-Business (SWAYAM)	3	3	-	-
ITBOE5	Data Mining & Data Warehousing	3	3	-	-

Note: The following courses will be offered through SWAYAM.

1. E-Business
2. Mobile Computing
3. Cloud Computing

CONTACT US**ADMINISTRATIVE OFFICE:**

NAGALAND UNIVERSITY RESIDENTIAL CAMPUS,
LANDMARK COLONY, DIMAPUR - 797112, NAGALAND

ACADEMIC COMPLEX:

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Online Application Link:

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IMPORTANT DATES AND APPLICATION FEES

Starting of Online Admission form	27 th May 2019
Last date of Online Admission form submission	6 th July 2019
Declaration of selected list (List of selected candidates shall be notified on university website)	12 th July 2019
Date of admission	22 nd to 24 th July 2019
Starting of Classes	25 th July 2019
Application Fees	₹250 (GEN/OBC) ₹200 (SC/ST)

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